The cross product of two independently derived lists do not necessarily cover all clusters.

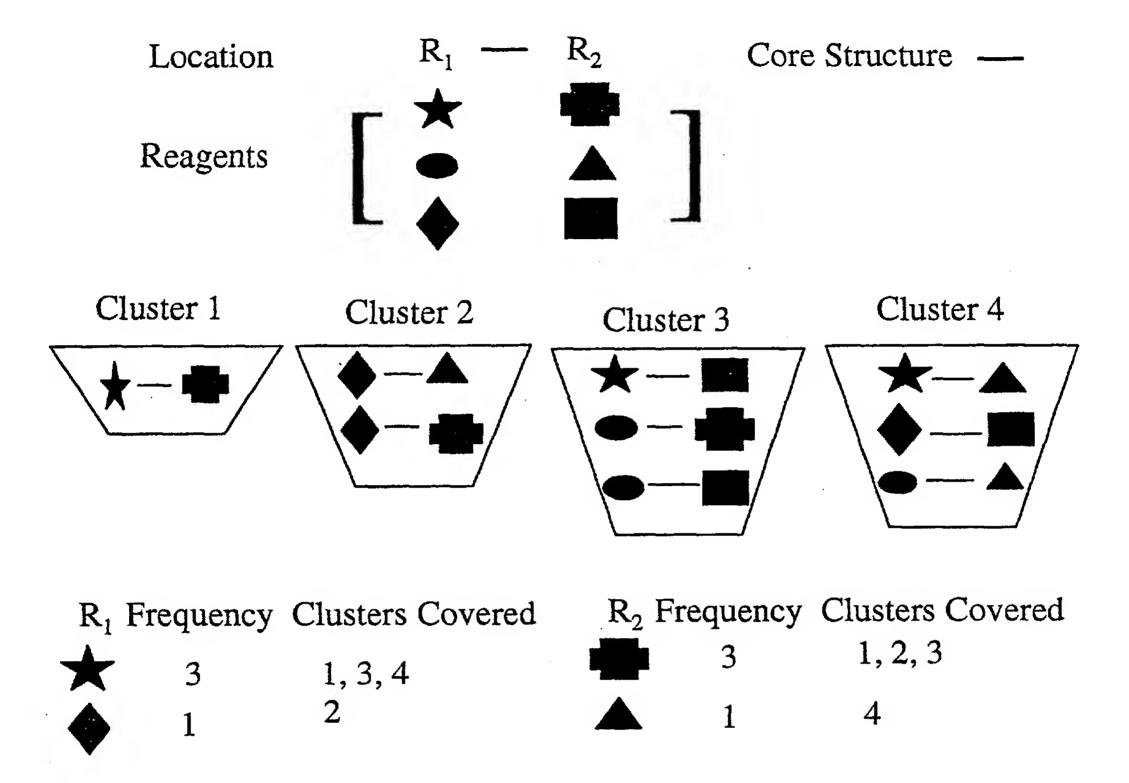


FIGURE 1

Example of Reactant Space for 3-R Group Combinatorial Library

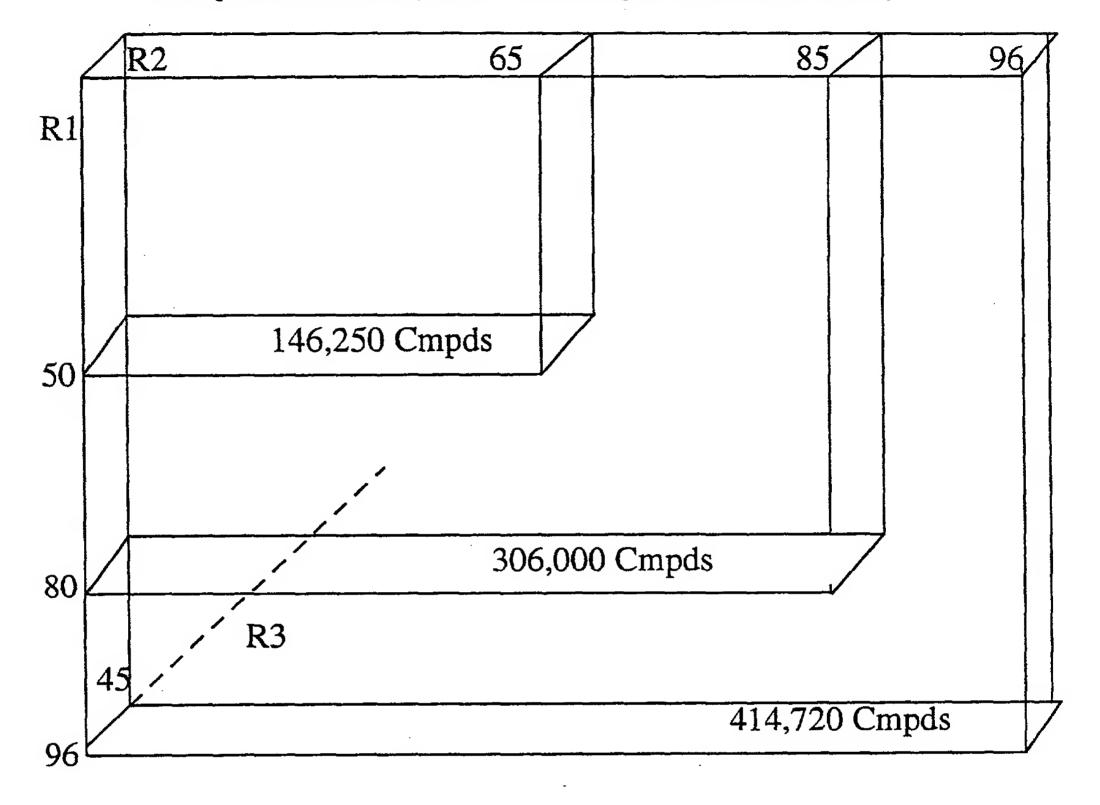
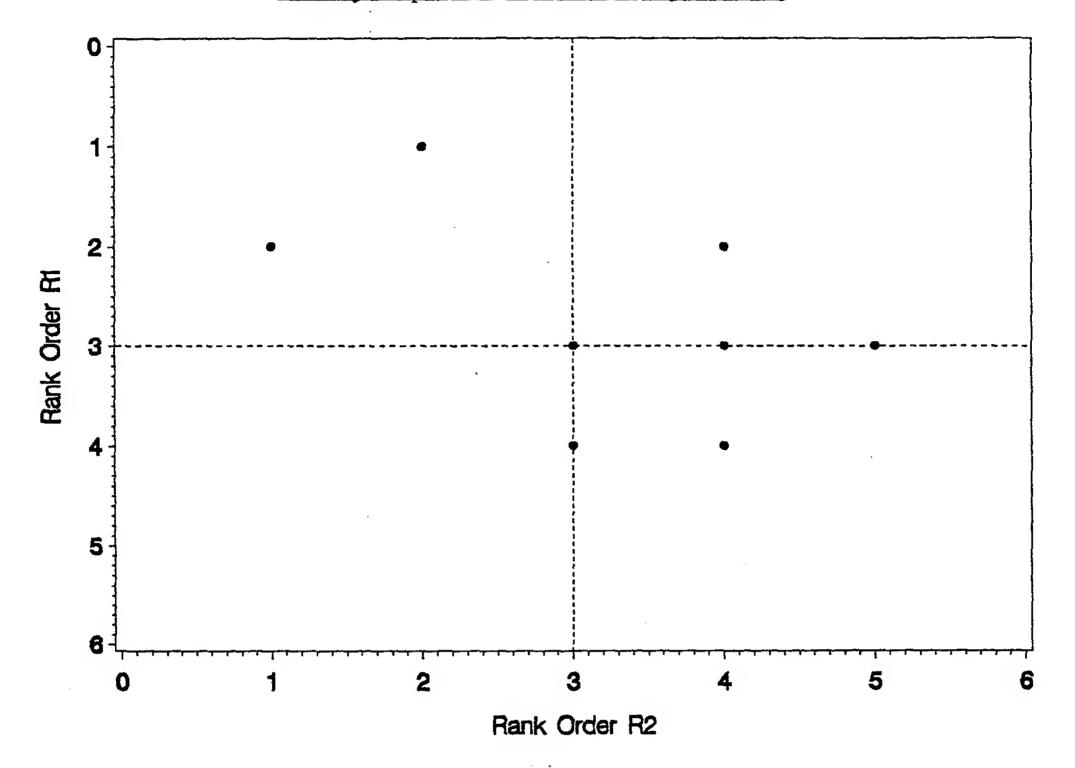


FIGURE 2

Density Map of Rank Order Data (R1 vs R2)

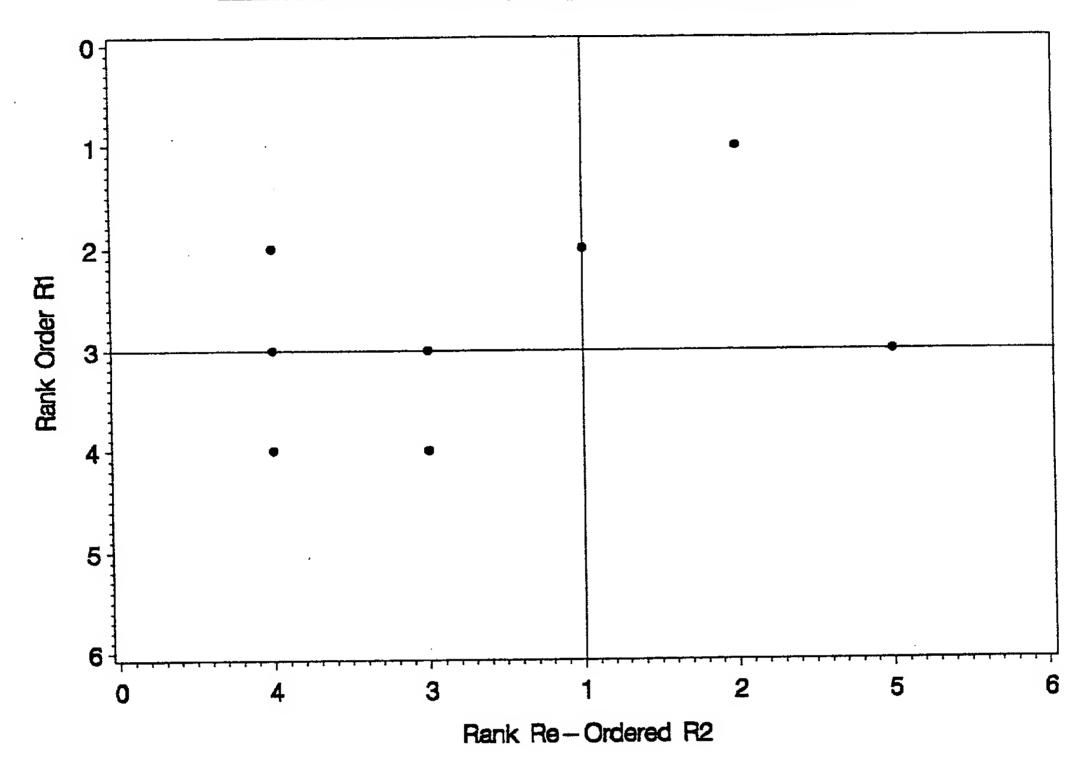


Note: 3 compounds in quadrant 1 (upper left), 3 compounds in quadrant 2 (upper right), 1 compound in quadrant 3 (lower left), and 1 compound in quadrant 4 (lower right).

FIGURE 3

density region using the minimum number of reagents should be selected.

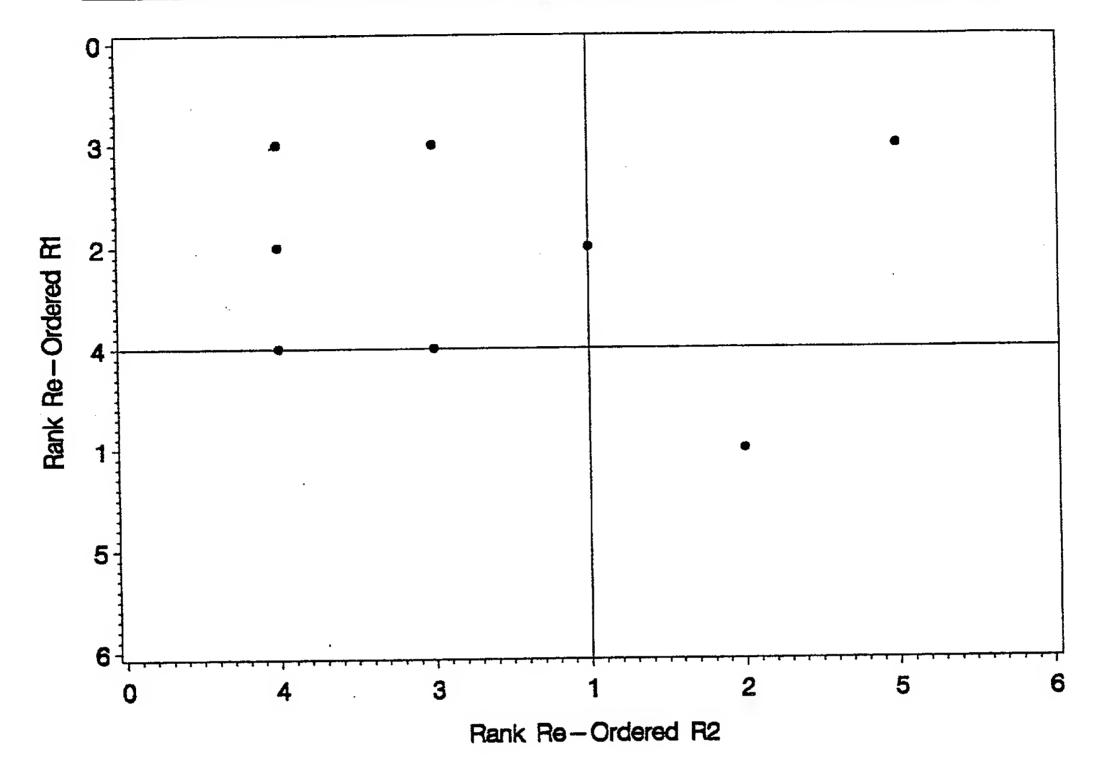
Column Reduced Density Map (R1 vs Re-Mapped R2)



Note: 4 compounds in quadrant 1 (upper left), 2 compounds in quadrant 2 (upper right), 2 compounds in quadrant 3 (lower left), and 0 compound in quadrant 4 (lower right).

FIGURE 4A

Column and Row Reduced Density Map (Re-Mapped R1 vs Re-Mappeded R2)

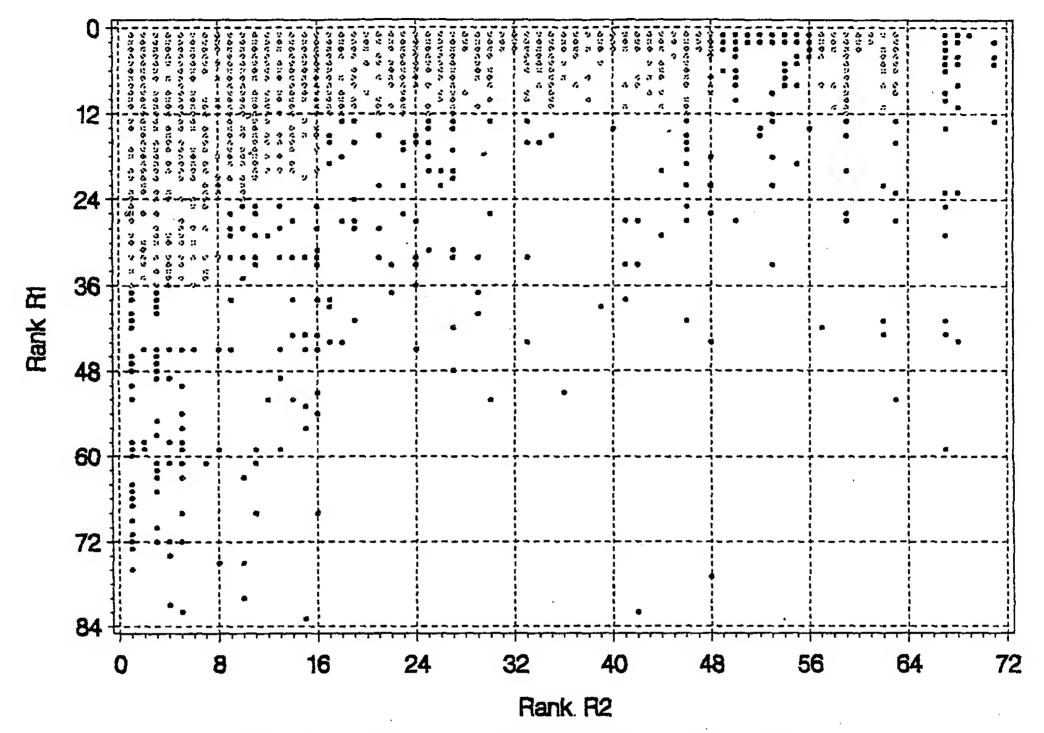


Note: 6 compounds in quadrant 1, 1 compound in quadrant 2, and 1 compound in quadrant 4.

FIGURE 4B

Frequency Distribution Method 1 (No Plate Optimization)

Density Map of 886 Clusters Ranked R1 vs Ranked R2 Reactants (substructures) R1 contains 84 reactants and R2 contains 72 reactants (First 2 Lists).



Ten Most Dense (12×8) Plates Cover 597 Clusters 46 Plates Required to Cover All 886 Clusters

FIGURE 5A

Frequency Distribution Method 1 (No Plate Optimization, 2 Lists)

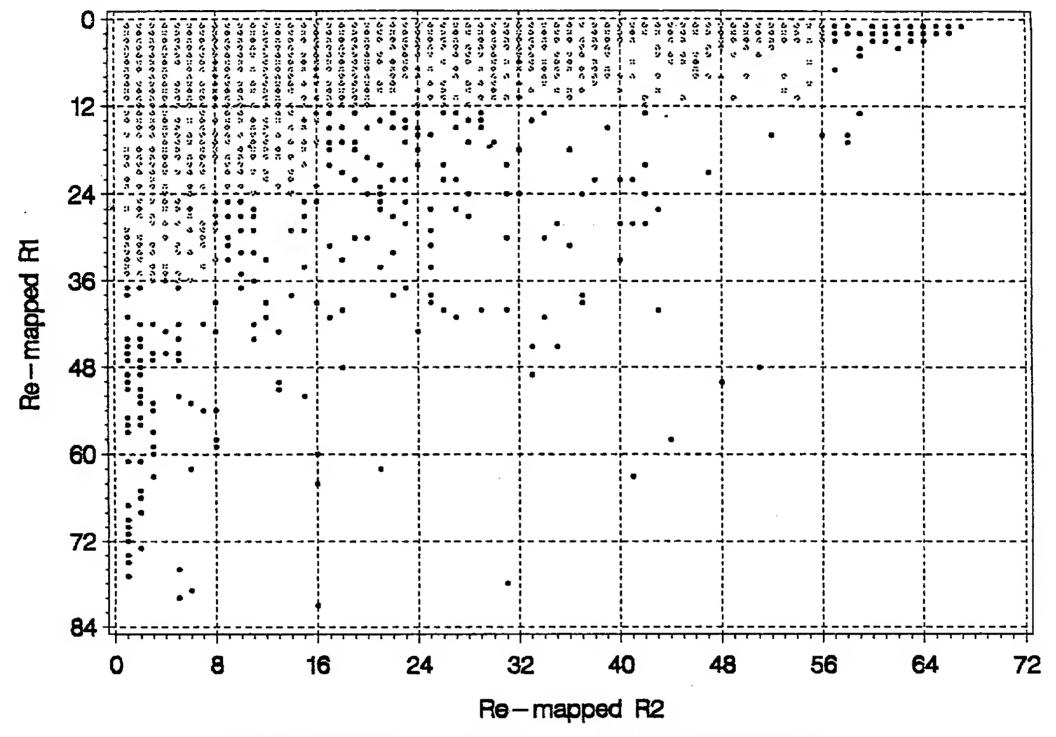
Plate Frequency (12 × 8)

Plates are numbered 1-63 Left to Right, Top to Bottom

| Number | Plate | Frequency | Percent | Clusters |
|-----------|--------|-----------|----------|------------|
| of Plates | Number | Count | Coverage | Covered |
| 01 1 2000 | | | C | |
| 1 | 2 | 89 | 10.0451 | 89 |
| 2 | 1 3 | 83 | 9.3679 | 172 |
| 3 | 3 | 71 | 8.0135 | 243 |
| 4 | 10 | 67 | 7.5621 | 310 |
| 5 | 4 | 56 | 6.3205 | 366 |
| 6 | 6 | 48 | 5.4176 | 414 |
| 7 | 11 | 48 | 5.4176 | 462 |
| 8 | 5 | 47 | 5.3047 | 509 |
| 9 | 19 | 46 | 5.1919 | 555 |
| 10 | 8 | 42 | 4.7404 | 597 |
| 11 | 7 | 35 | 3.9503 | 632 |
| 12 | 20 | 25 | 2.8217 | 657 |
| 13 | 28 | 21 | 2.3702 | 678 |
| 14 | 46 | 20 | 2.2573 | 698 |
| 15 | 9 | 18 | 2.0316 | 716 |
| 16 | 37 | 18 | 2.0316 | 734 |
| 17 | 12 | 15 | 1.6930 | 749 |
| 18 | 13 | 13 | 1.4673 | 762 |
| 19 | 21 | 11 | 1.2415 | 773 |
| 20 | 29 | 10 | 1.1287 | 783 |
| 21 | 15 | 9 | 1.0158 | 792 |
| 22 | 38 | 9 | 1.0158 | 801 |
| 23 | .24 | 8 | 0.9029 | 809 |
| 24 | 16 | . 7 | 0.7901 | 816 |
| 25 | 17 | 7 | 0.7901 | 823 |
| 26 | 30 | 7 | 0.7901 | 830 |
| 27 | 55 | 6 | 0.6772 | 836 |
| 28 | 14 | 5 | 0.5643 | 841 |
| 29 | 22 | 5 | 0.5643 | 846 |
| 30 | 18 | 4 | 0.4515 | 850 |
| 31 | 31 | 4 | 0.4515 | 854 |
| 32 | 47 | 4 | 0.4515 | 858 |
| 33 | 26 | 3 | 0.3386 | 861 |
| 34 | 33 | 3 | 0.3386 | 864 |
| 35 | 35 | 3 | 0.3386 | 867 870 |
| 36 | 36 | 3 | 0.3386 | 870 |
| 37 | 56 | 3 | 0.3386 | 873 |
| 38 | 25 | 2 | 0.2257 | 875 977 |
| 39 | 27 | 2 | 0.2257 | 877 970 |
| 40 | 32 | 2 | 0.2257 | 879 881 |
| 41 | 60 | 2 | 0.2257 | 882 |
| 42 | 23 | 1 | 0.1129 | 883 |
| 43 | 40 | 1 | 0.1129 | 884 |
| 44 | 41 | 1 | 0.1129 | 885 |
| 45 | 44 | 1 | 0.1129 | 886 |
| 46 | 45 | 1 | 0.1129 | 900 |

FIGURE 5B

Density Map of 886 Clusters Re-Ranked R1 vs Re-Ranked R2 Reactants R1 contains 81 reactants and R2 contains 67 reactants (2 Lists).



Ten Most Dense (12 × 8) Plates Cover 636 Clusters 41 Plates Required to Cover 886 Clusters

Note: Although the R1 substituent count is 84 and the R2 substituent count is 72 for the total of the two lists, because substituent groups can be reselected in Method I, the actual number of unique substituents required to cover the 886 clusters is 81 for R1 and 67 for R2.

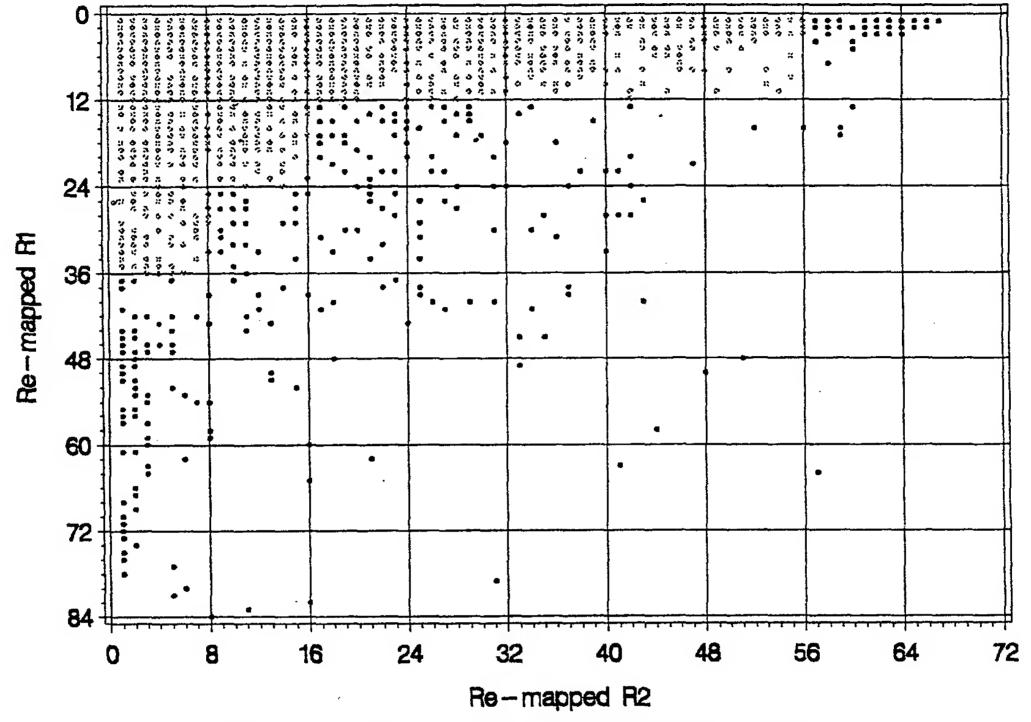
FIGURE 6A

Frequency Distribution Method 1 (Plate Optimized, 2 Lists)
Plate Frequency (12 × 8)
Plates are numbered 1-63 Left to Right, Top to Bottom

| Number of Plates | Plate Number | Frequency Count | Percent Coverage | Clusters Covered |
|------------------|-----------------|--------------------|---------------------|---------------------|
| 01 1 14000 | 1 (4111001 | Count | covoluge | 00,0104 |
| 1 | 1 | 91 | 10.2709 | 91 |
| 2 | 2 | 86 | 9.7065 | 177 |
| 3 | 3 | 80 | 9.0293 | 257 |
| 4 | 4 | 68 | 7.6749 | 325 |
| 5 | 10 | 68 | 7.6749 | 393 |
| 6 | 5 | 59 | 6.6591 | 452 |
| 7 | 11 | 55 | 6.2077 | 507 |
| 8 | 19 | 53 | 5.9819 | 560 |
| 9 | 6 | 42 | 4.7404 | 602 |
| 10 | 7 | 34 | 3.8375 | 636 |
| 11 | 12 | 31 | 3.4989 | 667 |
| 12 | 28 | 26 | 2.9345 | 693 |
| 13 | 8 | 24 | 2.7088 | 717 |
| 14 | 37 | 23 | 2.5959 | 740 |
| 15 | 20 | 22 | 2.4831 | 762 |
| 16 | 13 | 18 | 2.0316 | 780 |
| 17 | 46 | 12 | 1.3544 | 792 |
| 18 | 21 | 11 | 1.2415 | 803 |
| 19 | 29 | 8 | 0.9029 | 811 |
| 20 | 14 | 7 | 0.7901 | 818 |
| 21 | 22 | 7 | 0.7901 | 825 |
| 22 | 55 | 7 | 0.7901 | 832 |
| 23 | 30 | 6 | 0.6772 | 838 |
| 24 | 31 | 6 | 0.6772 | 844 |
| 25 | 9 | 5 | 0.5643 | 849 |
| 26 | 15 | 5 | 0.5643 | 854 |
| 27 | 23 | 5 | 0.5643 | 859 |
| · 28 | 32 | 5 | 0.5643 | 864 |
| 29 | 38 | 4 | 0.4515 | 868 |
| 30 | 17 | 3 | 0.3386 | 871 |
| 31 | 24 | 3 | 0.3386 | 874 |
| 32 | 16 | 2 | 0.2257 | 876 |
| 33 | 42 | 2 | 0.2257 | 878 |
| 34 | 33 | 1 | 0.1129 | 879 |
| 35 | 34 | 1 | 0.1129 | 880 |
| 36 | 41 | 1 | 0.1129 | 881 |
| 37 | 47 | 1 | 0.1129 | 882 |
| 38 | 48 | 1 | 0.1129 | 883 |
| 39 | 51 | 1 | 0.1129 | 884 |
| 40 | 56 | 1 | 0.1129 | 885 |
| 41 | 58 | 1 | 0.1129 | 886 |

FIGURE 6B

Density Map of 890 Clusters Re-Ranked R1 vs Re-Ranked R2 Reactants R1 contains 84 reactants and R2 contains 67 reactants (3 Lists).



Ten Most Dense (12 × 8) Plates Cover 636 Clusters 42 Plates Required to Cover 890 Clusters

Note: Although the R1 substituent count is 92 and the R2 substituent count is 80 for the total of the three lists, because substituent groups can be reselected in Method I, the actual number of unique substituents required to cover the 890 clusters is 84 for R1 and 67 for R2.

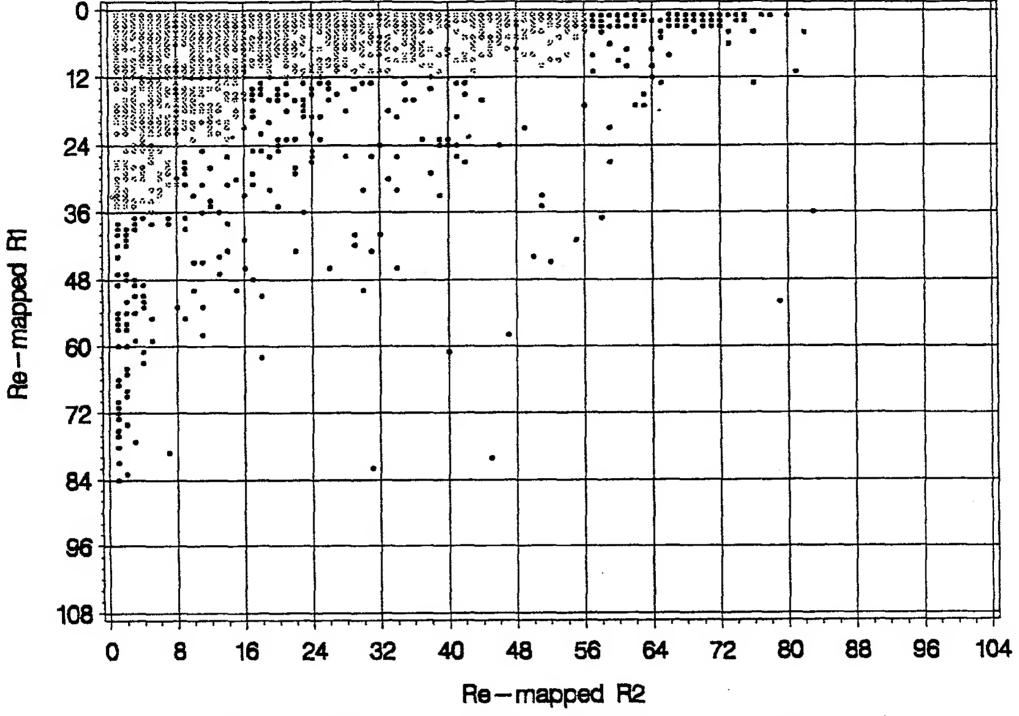
FIGURE 7A

Frequency Distribution Method 1 (Plate Optimized, 3 Lists) Plate Frequency (12 × 8) Plates are numbered 1-63 Left to Right, Top to Bottom

| Number of Plates | Plate Number | Frequency Count | Percent Coverage | Clusters Covered |
|------------------|-----------------|--------------------|---------------------|---------------------|
| 01 | | | | 33,323 |
| 1 | 1 | 91 | 10.2247 | 91 |
| 2 | 2 | 86 | 9.6629 | 177 |
| 3 | 3 | 80 | 8.9888 | 257 |
| 4 | 4 | 68 | 7.6404 | 325 |
| 5 | 10 | 68 | 7.6404 | 393 |
| 6 | 5 | 59 | 6.6292 | 452 |
| 7 | 11 | 55 | 6.1798 | 507 |
| 8 | 19 | 53 | 5.9551 | 560 |
| 9 | 6 | 42 | 4.7191 | 602 |
| 10 | 7 | 34 | 3.8202 | 636 |
| 11 | 12 | 31 | 3.4831 | 667 |
| 12 | 28 | 26 | 2.9213 | 693 |
| 13 | 8 | 24 | 2.6966 | 717 |
| 14 | 37 | 23 | 2.5843 | 740 |
| 15 | 20 | 22 | 2.4719 | 762 |
| 16 | 13 | 18 | 2.0225 | 780 |
| 17 | 46 | 12 | 1.3483 | 792 |
| 18 | 21 | 11. | 1.2360 | 803 |
| 19 | 55 | 9 | 1.0112 | 812 |
| 20 | 29 | . 8 | 0.8989 | 820 |
| 21 | 14 | 7 | 0.7865 | 827 |
| 22 | 22 | 7 | 0.7865 | 834 |
| 23 | 30 | 6 | 0.6742 | 840 |
| -24 | 31 | 6 | 0.6742 | 846 |
| 25 | 9 | 5 | 0.5618 | 851 |
| 26 | 15 | 5 | 0.5618 | 856 |
| 27 | 23 | 5 | 0.5618 | 861 |
| 28 | 32 | 5 | 0.5618 | 866 |
| 29 | 38 | 4 | 0.4494 | 870 |
| 30 | 17 | 3 | 0.3371 | 873 |
| 31 | 24 | 3 | 0.3371 | 876 |
| 32 | 16 | 2 | 0.2247 | 878 |
| 33 . | 42 | 2 | 0.2247 | 880 |
| 34 | 56 | 2 | 0.2247 | 882 |
| 35 | 33 | 1 | 0.1124 | 883 |
| 36 | 34 | 1 | 0.1124 | 884 |
| 37 | 41 | 1 | 0.1124 | 885 |
| 38 | 47 | 1 | 0.1124 | 886 |
| 39 | 48 | 1 | 0.1124 | 887 |
| 40 | 51 | 1 | 0.1124 | 888 |
| 41 | 53 | 1 | 0.1124 | 889 |
| 42 | 58 | 1 | 0.1124 | 890 |

FIGURE 7B

Density Map of 898 Clusters Re-Ranked R1 vs Re-Ranked R2 Reactants R1 contains 123 reactants and R2 contains 100 reactants.



Ten Most Dense (12 × 8) Plates Cover 620 Clusters 49 Plates Required to Cover All 898 Clusters

FIGURE 8A

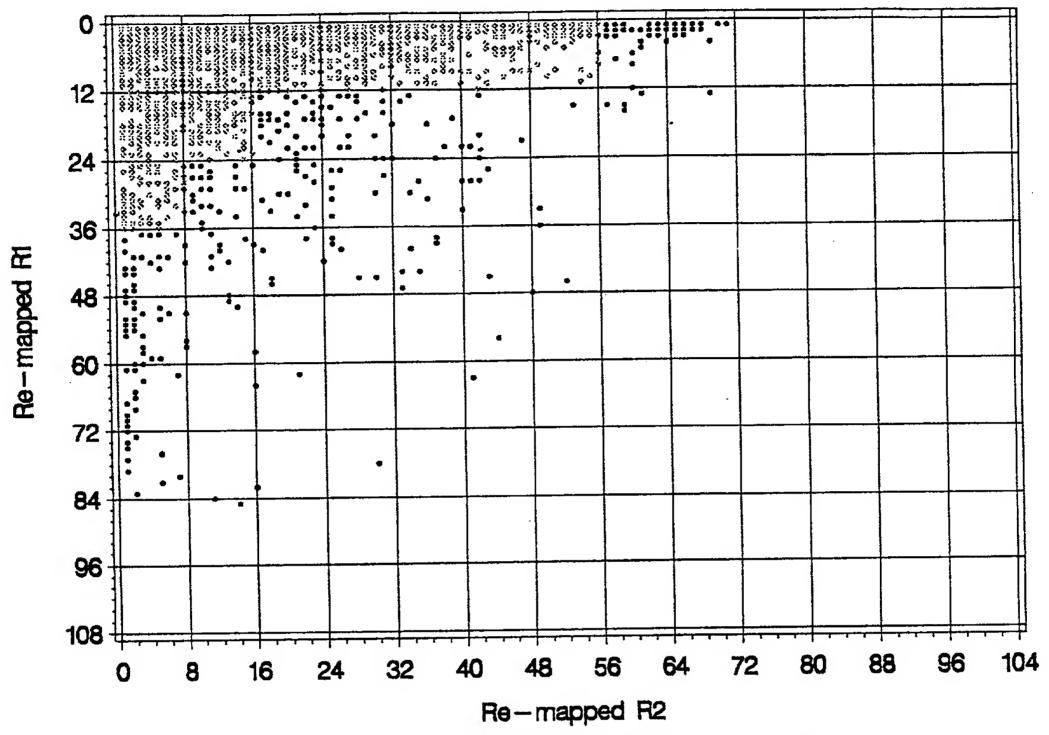
Frequency Distribution Method 2 (Plate Optimized, 6 Lists)

Plate Frequency (12 × 8)

Plates are numbered 1-117 Left to Right, Top to Bottom

| Number | Plate | Frequency | Percent | Clusters |
|------------|-------------|-------------|------------------|------------|
| of Plates | Number | Count | Coverage | Covered |
| | | | | |
| 1 | 2 | 90 | 10.0223 | 90 |
| 2 | 1 | 88 | 9.7996 | 178 |
| 3 | 14 | 73 . | 8.1292 | 251 |
| 4 | 3 | 72 | 8.0178 | 323 |
| 5 | 4 | 68 | 7.5724 | 391 |
| 6 | 5 | 55 | 6.1247 | 446 |
| 7 | 15 | 47 | 5.2339 | 493 |
| 8 | 6 | 46 | 5.1225 | 539 |
| 9 | 27 · | 44 | 4.8998 | 583 |
| 10 | 7 | 37 | 4.1203 | 620 |
| 11 | 16 | 31 | 3.4521 | 651 |
| 12 | 8 | 29 | 3.2294 | 680 |
| 13 | 9 | 25 | 2.7840 | 705 |
| 14 | 53 | 22 | 2.4499 | 727 |
| 15 | 40 | 20 | 2.2272 | 747 |
| 16 | 28 | 16 | 1.7817 | 763 |
| 17 | 29 | 14 | 1.5590 | 777 |
| 18 | 17 | 12 | 1.3363 | 789 |
| 19 | 10 | 11 | 1.2249 | 800 |
| 20 | . 18 | 11 | 1.2249 | 811 |
| 21 | 66 | 11 | 1.2249 | 822 |
| 22 | 41 | 10 | 1.1136 | 832 |
| 23 | 79 | 10 | 1.1136 | 842 |
| 24 | 19 | 7 | 0.7795 | 849 |
| 25 | 31 | 5 | 0.5568 | 854 |
| 26 | 43 | 5 | 0.5568 | 859 |
| 27 | 54 | 5 | 0.5568 | 864 |
| 28 | 21 | 4 | 0.4454 | 868 |
| 29 | 30 | 3 | 0.3341 | 871 |
| 30 | 46 | 3 | 0.3341 | 874 |
| 31 | 11 | 2 | 0.2227 | 876 |
| 32 | 20 | 2 | 0.2227 | 878 |
| 33 | 32 | 2 | 0.2227 | 880 |
| 34 | 33 | 2 | 0.2227 | 882 |
| 35 | 42 | 2 | 0.2227 | 884 |
| 36 | 22 | 1 | 0.1114 | 885 |
| 37 | 23 | 1 | 0.1114 | 886 |
| 38 | 34 | 1 | 0.1114 0.1114 | 887 888 |
| 39 | 37 | 1 | | 889 |
| 40 | 44 | 1 | 0.1114 0.1114 | 890 |
| 41 | 47 55 | 1 | | 891 |
| 42 | 55 56 | 1 | 0.1114 0.1114 | 892 |
| 43 | 56 58 | 4 | 0.1114 | 893 |
| 44 45 | | 1 | 0.1114 | 894 |
| 45 46 | 62 69 | l √ | 0.1114 | 895 |
| 46 47 | 68 70 | l - | 0.1114 | 896 |
| . 47 48 | 70 82 | i 1 | 0.1114 | 897 |
| 46 49 | 82 84 | 1 | 0.1114 | 898 |
| 49 | 04 | ı | G. H. T. | |

Density Map of 894 Clusters Re-Ranked R1 vs Re-Ranked R2 Reactants R1 contains 96 reactants and R2 contains 78 reactants.



Ten Most Dense (12 × 8) Plates Cover 632 Clusters 43 Plates Required to Cover 894 Clusters

FIGURE 9A

Frequency Distribution Method 3 (Plate Optimized, 3 Lists)
Plate Frequency (12×8)
Plates are numbered 1-117 Left to Right, Top to Bottom

| Number | Plate F | requency | Percent | Clusters |
|-----------|----------|----------|------------------|-------------|
| of Plates | Number | Count | Coverage | Covered |
| | | | • | |
| 1 | 1 | 90 | 10.0671 | 90 |
| 2 | 2 | 86 | 9.6197 | 176 |
| 3 | 3 | 79 | 8.8367 | 255 |
| 4 | 4 | 67 | 7.4944 | 322 |
| 5 | 14 | 67 | 7.4944 | 389 |
| 6 | 5 | 59 | 6.5996 | 448 |
| 7 | 15 | 55 | 6.1521 | 503 |
| 8 | 27 | 52 | 5.8166 | 555 |
| 9 | 6 | 42 | 4.6980 | 597 |
| 10 | 7 | 35 | 3.9150 | 632 |
| 11 | 16 | 31 | 3.4676 | 663 |
| 12 | 8 | 25 | 2.7964 | 688 |
| 13 | 53 | 24 | 2.6846 | 712 |
| 14 | 28 | 22 | 2.4609 | 734 |
| 15 | 40 | 22 | 2.4609 | 756 |
| 16 | 17 | 18 | 2.0134 | 774 |
| 17 | 9 | 13 | 1.4541 | 787 |
| 18 | 29 | 12 | 1.3423 | 799 |
| 19 | 66 | 12 | 1.3423 | 811 |
| 20 | 41 | 9 | 1.0067 | 820 |
| 21 | 79 | 9 | 1.0067 | 829 |
| 22 | 18 | 7 | 0.7830 | 836 |
| 23 | 30 | 7 | 0.7830 | 843 |
| 24 | 44 | 6 | 0.6711 | 849 |
| 25 | 19 | 5 | 0.5593 | 854 |
| 26 | 31 | 5 | 0.5593 | 859 |
| 27 | 42 | 5 | 0.5593 | 864 |
| 28 | 43 | 5 | 0.5593 | 869 |
| 29 | 21 | 4 | 0.4474 | 873 |
| 30 | 32 | 3 | 0.3356 | 876 |
| 31 | 54 | 3 | 0.3356 | 879 881 |
| 32 | 33 | 2 | 0.2237 | 883 |
| 33 | 45 | 2 | 0.2237 | 885 |
| 34 | 80 | 2 | 0.2237 | 886 |
| 35 | 20 | 1 | 0.1119 | 887 |
| 36 | 22 | 1 | 0.1119 | 888 |
| 37 | 46 | 1 | | 889 |
| 38 | 58 | 1 | 0.1119 0.1119 | 890 |
| 39 | 67 69 | 1 | 0.1119 | 891 |
| 40 | 68 71 | · 4 | 0.1119 | 892 |
| 41 | 71 | 1 | 0.1119 | 893 |
| 42 | 82 | 1 | 0.1119 | 894 |
| 43 | 93 | ı | V. 1113 | ~~ , |

FIGURE 9B

10 St. 10

| Plate: 1 Layout Activity (<50 50-59 | (R1: F | hEt) | - Cit | ster ID | (size,actives > 50%) |
|-------------------------------------|--------|-------|-------|---------|----------------------|
| Activity (<50 50-59 | 60-69 | 70-79 | 80-89 | >90) | |

| R2 ; | | | , , , | | <u> </u> | | | |
|---------|------------|-----------|-----------------------------|-----------|-----------|-----------|-----------|------------|
| nBu | 504(8,3) | 215(24,1) | 448(8,5) | 68(21,0) | 532(10,0) | 3(23,1) | 517(8,0) | 491(9,0) |
| 4dMaPh | 329(8,1) | 93(18,0) | 357(18,2) | 110(16,1) | 373(17,0) | 52(19,1) | 359(14,0) | 312(15,0) |
| 4MeCOPh | 232(17,10) | 99(21,1) | 245(19,2) | 77(18,1) | 251(15,0) | 35(41,5) | 256(19,3) | 311(13,0) |
| 3TMPh | 374(23,10) | 95(19,0) | 369(13,1) | 148(16,0) | 426(15,0) | 60(28,12) | 361(13,1) | 355(19,0) |
| | 106(25,12) | 203(44,3) | 543(13,3) | 78(12,4) | 570(13,0) | 5(22,5) | 558(13,1) | 474(16,0) |
| 3NOPh | 189(13,8) | 67(33,3) | 195(13,1) | 12(18,3) | 305(13,1) | 51(11,0) | 206(13,1) | 169(13,1) |
| 3CIPh | 394(6,2) | 98(12,0) | 403(6,2) | 283(12,0) | 324(6,0) | 132(14,3) | 405(6,0) | 322(6,0) |
| 2Pyr | | 80(21,1) | 356(27,3) | 111(12,2) | 352(23,0) | 43(22,5) | 366(25,1) | (01,85)808 |
| 2Naphth | 331(11,4) | | 142(28,7) | 11(12,0) | 223(16,0) | 7(19,2) | 149(29,2) | 184(18,1) |
| 2MOPh | 73(29,4) | 8(36,1) | | 17(9,0) | 288(13,0) | 20(18,0) | 253(13,1) | 231(13,0) |
| 2FPh | 236(13,8) | 47(20,0) | 247(13,1) | 17(0,0) | | | | |

ALA ASP HIS HPHE LYS MPHE Thiof UPr R3

FIGURE 10A

Plate: 2 Layout (R1: 4MoPh) — Cluster ID (size,actives > 50%)
Activity (<50 50-59 60-69 70-79 80-89 >90)

| R2 ₋ | | | | | | | | 774 770 67 |
|-----------------|------------|-----------|------------------|------------|-----------|-----------|------------|-------------------|
| nBu | 446(20,3) | 384(16,1) | 209(9,0) | 484(19,1) | 610(13,0) | 65(23,3) | 183(9,4) | 564(10,0) |
| | 444(11,1) | 94(35,5) | 233(22,3) | 451(23,5) | 452(19,0) | 56(19,3) | 15(20,12) | 440(15,1) |
| 4dMaPh | | | ns/min Eh | 389(14,8) | 423(12,0) | 122(14,5) | 27(15,15) | 402(14,1) |
| 4MeCOPh | 338(14,3) | 147(25,0) | 81(23,6) | 303(14,0) | | 40054.43 | 31(15,10) | 527(17,1) |
| 3TMPh | 374(23,10) | 48(31,3) | 284(23,3) | 515(18,11) | 569(16,0) | 102(14,4) | | |
| 3NOPh | 604(8,8) | 121(21,2) | 79(16,9) | 349(32,24) | 622(14,0) | 4(22,16) | 442(15,11) | 582(16,0) |
| | 235(13,6) | 62(8,2) | 127(28,7) | 244(15,5) | 259(30,0) | 159(12,3) | 100(15,15) | 154(30,1) |
| 3CIPh | 200(10(0) | | 40.0# 0 M | 172(16,6) | 644(12,0) | 30(23,9) | 26(13,8) | 596(14,1) |
| 3COPh | 219(10,1) | 150(18,0) | 186(13,9) | 172(10,0) | | | 14(21,16) | 568(6, 2) |
| 2Naphth | 501(19,6) | 75(27,2) | 237(30,12) | 521(20,8) | 557(25,0) | 44(15,4) | 14(21,10) | |
| • | 297(9,1) | 84(26,1) | 19(18,9) | 238(21,6) | 313(22,0) | 38(29,15) | 4(22,16) | 105(11,0) |
| 2MOPh | | 1018 M | 25(13,1) | 187(18,8) | 113(14,0) | 116(14,4) | 90(11,8) | 109(10,0) |
| 2FPh | 119(10,6) | 101(15,0) | 201.01.1 | | | | | |

ALA ASP CHA LEU LYS MPHE NPHE UPT

FIGURE 10B.

Plate: 13 Layout (R1: 24MoPh) — Cluster ID (size, actives > 50%) Activity (<50 50-59 60-69 70-79 80-89 > 90)

| R2. | | ·· | ·· | · ——- | | | | |
|---------|-----------|------------|------------|------------|-----------|------------|-----------|-----------|
| PhMe | 103(2,0) | 181(17,0) | 175(15,10) | 19(18,9) | 38(29,15) | 4(22,16) | 304(19,1) | 105(11,0) |
| 4MeCOPh | 598(6,0) | 273(26,5) | 274(10,5) | 81(23,5) | 122(14,5) | 27(15,15) | 147(25,0) | 402(14,1) |
| 4AcNPh | 594(7,0) | 685(19,0) | 277(25,3) | 677(13,2) | 575(15,0) | 669(13,6) | 320(7,0) | 701(20,0) |
| 3TMPh | 289(8,0) | 339(36,10) | 60(28,12) | 284(23,3) | 102(14,4) | 31(15,10) | 48(31,3) | 527(17,1) |
| 3NOPh | 234(13,4) | 544(18,7) | 28(24,13) | 338(8,8) | 4(22,16) | 442(15,11) | 121(21,2) | 582(16,0) |
| 3CIPh | 271(10,0) | 432(9,2) | 439(9,6) | 583(5,3) | 437(9,6) | 69(12,11) | 138(17,1) | 463(13,1) |
| 3COPh | 590(6,0) | 594(7,0) | 599(8,6) | 186(13,9) | 30(23,9) | 26(13,8) | 150(18,0) | 596(14,1) |
| 2Naphth | 295(10,0) | 553(7,0) | 572(7,3) | 237(30,12) | 576(7,3) | 588(5,5) | 276(12,1) | 607(7,2) |

ASP ACLYS BZSER CHA MPHE NPHE SER UPr R3

FIGURE 11A

Plate: 30 Layout (R1: EtAc) — Cluster ID (size,actives > 50%)
Activity (<50 50-59 60-69 70-79 80-89 > 90)

| R2 | | | |
|--------|-----------|-----------|--------------------|
| PhMe | 430(22,5) | 215(24,1) | 585(19,0) |
| 4dMaPh | 484(19,1) | 627(12,1) | 585(19, 0) |
| 2MOPh | 468(8,1) | 384(16,1) | 564(10,0) |
| | LEU | SER | UPr |
| | | R3 | £ |

FIGURE 11B

| Plate: 31 Activity (<50 R2 | Layout (R1: 1 50-59 60-69 | Ph) — Cluster ID (size,actives > 50%) 70-79 80-89 > 90) | |
|----------------------------------|------------------------------|--|----------|
| 2Pyr | 283(12,0) | | 145(8,1) |
| 2MOPh | 42(9,O) | | 34(7,1) |
| | HPHE | R3 FIGURE 12A | MPHE |
| Plate: 3: Activity (<50 R2 | | EtAc) — Cluster ID (size,actives > 50%) 70-79 80-89 > 90) | |
| 4AcNPh | | e03(16,3) | |
| | | | |
| | | AcLYS | |

FIGURE 12B

R3